Preliminary Classification:

Proposed Class:

Subclass:

NOTE: "All applicants are requested to include a preliminary classification on newly filed patent applications. The preliminary classification, preferably class and subclass designations, should be identified in the upper right-hand corner of the letter of transmittal accompanying the application papers, for example Proposed Class 2, subclass 129." M.P.E.P. Section 601, 7th ed.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of

Inventor(s): Dong-Yeon KIM, Jae-Gun KIM, Dae-Jin CHO, Gong-Yeal LEE, Hong-Youb KIM,

Seok-Hun WOO, Yong-Seok KIM, Woo-Chul BAE, Sun-Ahe LEE and Byoung-Cheol HAN

WARNING: 37 CFR 1.41(a)(1) points out:

"(a) A patent is applied for in the name or names of the actual inventor or inventors.

(1) The inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration as prescribed by § 1.63, except as provided for in § 1.53(d)(4) and § 1.63(d). If an oath or declaration as prescribed by § 1.63 is not filed during the pendency of a nonprovisional application, the inventorship is that inventorship set forth in the application papers filed pursuant to § 1.53(b), unless a petition under this paragraph accompanied by the fee set forth in § 1.17(i) is filed supplying or changing the name or names of the inventor or inventors."

For (title): N-PHENYL-2-PYRIMIDINE-AMINE DERIVATIVES AND PROCESS FOR THE PREPARATION THEREOF

CERTIFICATION UNDER 37 C.F.R. 1.10*

(Express Mail label number is mandatory.)

(Express Mail certification is optional.)

I hereby certify that this correspondence and the documents referred to as attached therein are being deposited with the United States Postal Service on this date March 22, 2004 in an envelope as "Express Mail Post Office to Addressee," mailing Label Number EV438978446[IS] addressed to the: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

(type or pring name of person mailing paper)

Signature of person mailing paper

WARNING: Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence. *WARNING: Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. 1.10(b). "Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442 1. Type of Application This new application is for a(n) (check one applicable item below) [X] Original (nonprovisional) [] Design [] Plant WARNING: Do not use this transmittal for a completion in the U.S. of an International Application under 35 U.S.C. 371(c)(4), unless the International Application is being filed as a divisional, continuation or continuation-inpart application. WARNING. Do not use this transmittal for the filing of a provisional application. NOTE: If one of the following 3 items apply, then complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED and a NOTIFICATION IN PARENT APPLICATION OF THE FILING OF THIS CONTINUATION APPLICATION. [] Divisional. [] Continuation Continuation-in-part (C-I-P). [X] 2. Benefit of Prior U.S. Application(s) (35 U.S.C. 119(e), 120, or 121) A nonprovisional application may claim an invention disclosed in one or more prior filed copending nonprovisional applications or copending international applications designating the United States of America. In order for a nonprovisional application to claim the benefit of a prior filed copending nonprovisional application or copending international application designating the United States of America, each prior application must name as an inventor at least one inventor named in the later filed nonprovisional application and disclose the named inventor's invention claimed in at least one claim of the later filed nonprovisional application in the manner provided by the first paragraph of 35 U.S.C. 112. Each prior application must also be:

> (i) An international application entitled to a filing date in accordance with PCT Article 11 and designating the United States of America; or

(ii) Complete as set forth in § 1.51(b); or

(iii) Entitled to a filing date as set forth in § 1.53(b) or § 1.53(d) and include the basic filing fee set forth in § 1.16; or

(iv) Entitled to a filing date as set fortli in § 1.53(b) and have paid therein the processing and retention fee set forth in § 1.21(1) within the time period set forth in § 1.53(f).

37 CFR 1.78(a)(1).

NOTE If the new application being transmitted is a divisional, continuation or a continuation-in-part of a parent case, or where the parent case is an International Application which designated the U.S., or benefit of a prior provisional application is claimed, then check the following item and complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

WARNING:

If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. 120, 121 or 365(c) (35 U.S.C. 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. 119, 365(a) or 365(b). For a c-i-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider concelling the reference to the earlier field application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.

WARNING:

When the last day of pendency of a provisional application falls on a Saturday, Sunday, or Federal holiday within the District of Columbia, any nonprovisional application aclaiming benefit of the provisional application must be filed prior to the Saturday, Sunday, or Federal holiday within the District of Columbia. See 37 C.F.R. § 1.78(a)(3).

[X] The new application being transmitted claims the benefit of prior U.S. application(s). Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

3. Papers Enclosed

A. Required for Filing Date under 37 C.F.R. 1.53(b) (Regular) or 37 C.F.R. 1.153 (Design) Application

51_	_Page:	of Specification
		of Claims
	_Sheet	s of Drawing
	[X]	Formal
	[]	Informal

B. Other Papers Enclosed

Pages of Abstract
Other

WARNING:

DO NOT submit original drawings. A high quality copy of the drawings should be supplied when filing a patent application. The drawings that are submitted to the Office must be on strong, white, smooth, and non-shiny paper and meet the standards according to \S 1.84. If corrections to the drawings are necessary, they

should be made to the original drawing and a high-quality copy of the corrected original drawing then submitted to the Office. Only one copy is required or desired. For comments on proposed then-new 37 C.F.R. 1.84, see Notice of March 9, 1988 ... (1990 O.G. 57-62).

NOTE	doci drav	nutiying indicia, if provided, should include the application number or the title of the invention, inventor's name, set number (if any), and the name and telephone number of a person to call if the Office is unable to match the wings to the proper application. This information should be placed on the back of each sheet of drawing a mum distance of 1.3 cm. (5/8 inch) down from the top of the page "37 C.F.R. 1.84(c)). (complete the following, if applicable)
	[]	The enclosed drawing(s) are photograph(s), and there is also attached a "PETITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)." 37 C.F.R. 1.84(b).
4.	Add	litional Papers Enclosed
		Preliminary Amendment Information Disclosure Statement (37 C.F.R. 1.98) Form PTO-1449 Citation [AA-AI] Declaration of Biological Deposit Submission of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for biotechnology invention containing nucleotide and/or amino acid sequence. Authorization of Attorney(s) to Accept and Follow Instructions from Representative Special Comments Other:
5.	Decl	aration or Oath
NOTE:	the invested in that de under	ly executed declaration is not required in a continuation or divisional application provided the prior positional application contained a declaration as required, the application being filed is by all or fewer than all entors named in the prior application, there is no new matter in the application being filed, and a copy of the ed declaration filed in the prior application (showing the signature or an indication thereon that it was signed) witted. The copy must be accompanied by a statement requesting deletion of the names of person(s) who are not prior of the application being filed. If the declaration in the prior application was filed under § 1.47 that a copy of \$1.47 has subsequently joined in a prior application, then a copy of the subsequently executed declaration must \$1.50 the subsequently joined in a prior application, then a copy of the subsequently executed declaration must \$1.50 the subsequently joined in a prior application, then a copy of the subsequently executed declaration must \$1.50 the subsequently joined in a prior application, then a copy of the subsequently executed declaration must \$1.50 the subsequently joined in a prior application in the subsequently executed declaration must \$1.50 the subsequently joined in a prior application the subsequently executed declaration must \$1.50 the subsequently executed \$1.50 the subseque
VOTE:	togethe	ration filed to complete an application must be executed, identify the specification to which it is directed, each inventor by full name, including the family name, and at least one given name without abbreviation r with any other given name or initial, and the residence, post office address and country of citizenship of each r and state whether the inventor is a sole or joint inventor. 37 CFR l.63(a)(1)-(4)
	[]	Enclosed Executed by
		(check all applicable boxes) inventor(s) legal representative of inventor(s). 37 CFR 1.42 or 1.43.

NOT	[X] E: Where	[] joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached. [] This is the petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 is also attached. See item 13 below for fee. Not Enclosed. **the filing is a completion in the U.S. of an International Application, or where the completion of the U.S. application contains subject matter in addition to the International Application, the application may be treated as a continuation or continuation-jrant, as the case may be, utilizing ADDED PAGE FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION CLAIMED. [X] Application is made by a person authorized under 37 C.F.R. 1.41(c) on behalf of all the above named inventor(s).
		The declaration or oath, along with the surcharge required by 37 CFR 1.16(e), can be filed subsequently).
NOTE	: It is im	portant that all the correct inventor(s) are named for filing under 37 CFR 1.41(c) and 1.53(b).
		[] Showing that the filing is authorized.
6.	T	(not required unless called into question. 37 CFR 1.41(d))
		torship Statement
WARN		If the named inventors are each not the inventors of all the claims an explanation, including the ownership of the various claims at the time the last claimed invention was made, should be submitted.
The in	ventorsh	ip for all the claims in this application are:
	[]	The same.
	[]	Not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made, [] is submitted.
7.	Langua	nge
NOTE:	An applic translatio required t	ation including a signed oath or declaration may be filed in a language other than English. An English m of the non-English language application and the processing fee of \$130.00 required by 37 CFR 1.17(k) is o be filed with the application, or within such time as may be set by the Office. 37 CFR 1.52(d).
	[X] []	English Non-English [] The attached translation includes a statement that the translation is accurate. 37 C.F.R. 1.52(d).
8.	Assignn	tent

An assignment of the invention to IL YANG PHARM. CO., LTD. [X]

[X] is attached. A separate [X] "COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING NEW PATENT APPLICATION" or [] FORM PTO 1595 is also attached.

[] was filed in the parent application, and was recorded on

[1 will follow.

NOTE: "If an assignment is submitted with a new application, send two separate letters-one for the application and one for the assignment" Notice of May 4, 1990 (1114 O.G. 77-78).

WARNING:

A newly executed "STATEMENT UNDER 37 CFR 3.73(b)" must be filed when a continuation-in-part application is filed by an assignee. Notice of April 30, 1993, 1150 O.G. 62-64.

9. Certified Copy

Certified copy(ies) of application(s)

Country	Appln. No.	Filed
Korea	2003-28669	May 6, 2003
from which priority is	claimed	, ,

- are enclosed.
- was filed in parent application. []
- [X] will follow.

NOTE: The foreign application forming the basis for the claim for priority must be referred to in the oath or declaration. 37 CFR 1.55(a) and 1.63.

NOTE: This item is for any foreign priority for which the application being filed directly relates. If any parent U.S. application or International Application from which this application claims benefit under 35 U.S.C. 120 is itself entitled to priority from a prior foreign application, then complete item 18 on the ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

Fee Calculation (37 C.F.R. 1.16) 10.

A. [X] Regular application

CLAIMS AS F	ILED				
Claims	Number Filed	Basic Fee Allowance	Number Extra	Rate	Basic Fee 37 C.F.R. 1.16(a)
Total Claims (37 CFR 1.16(c))	9	- 20 =	5	x \$ 18.00	\$770.00 \$00
Independent Claims (37 CFR 1.16(b))	1	- 3 =	0	x \$ 86.00	\$0.00

C	ltiple Do laim(s), 7 CFR 1		0		+	\$290.00	\$0.00
	[] [] []	Amen	dment cancelling extra dment deleting multip r extra claims is not b	ple-dependencie	es is enclosed		
NOTE	: If the expirat 1.16(d,	fees for exti ion of the ti).	ra claims are not paid on ime period set for respons	s filing they must b se by the Patent and	e paid or the cl d Trademark Of	aims cancelled Tice in any notic	by amendment, prior to the e of fee deficiency. 37 CFI
				Filing Fee	e Calculation	<u>\$_</u>	770.00
	В.	[]	Design application (\$330.00—37 CFR	1.16(f))			
				Filing Fee	Calculation	\$	
	C.	[]	Plant application (\$540.00—37 CFR	1.16(g))			
				Filing Fee	Calculation	\$	
11.	Small	Entity S	tatement(s)				
	[]	Applica	ant claims small entity	y status.			
			(complete	the following, ij	f applicable)		
		Filing F	ee Calculation (50%	of A, B or C ab	ove)	\$770	.00_
NOTE:	Any exc months o	ess of the f the date of	ull fee paid will be refun timely payment of a full fo	ded if a small enti ee. The two-month j	ity status is esta period is not ext	blished refund i endable under §	request are filed within 2 1.136.37 CFR 1.28(a).
12.	Reque	st for Int	ernational-Type Sea	arch (37 C.F.R.	1.104(d))		
			(con	nplete, if applica	able)		
	[]	Please p national	repare an internation examination on the n	nal-type search nerits takes plac	report for the	nis applicatio	on at the time when
13.	Fee Pa	yment Be	ing Made at This Ti	ime			
	[]	Not Encl	osed				

NOTE:	Fees sho	ould be item	sized in such a manner that it is clear for which purpose the fees t	are paid. 37 CFR 1.22(b).
			to the control of the	
	[]	Charge A dupli	Account No in the amount of cate of this transmittal is attached.	\$
	[X]	Check	in the amount of \$810.00	
14.	Metho	od of Pay	ment of Fees	
			Total Pees Effciosed	\$810.00_
NOTE:	order t	o obtain th	tablishes a fee for processing and retaining any application that int to 37 CFR 1.53(f) and this, as well as the changes to 37 Cl e benefit of a prior U.S. application, either the basic filing fe 2.1(f) must be paid, within 1 year from notification under § 53(f). Total Fees Enclosed	FR 1.33 and 1.78(a)(1), indicate that we must be paid, or the processing an
			Fee for international-type search report (\$40.00; 37 C.F.R. 1.21(e))	\$
		[]	Processing and retention fee (\$130.00; 37 C.F.R. 1.53(d) and 1.21(l))	\$
		(1)	(\$130.00; 37 C.F.R. 1.52(d) and 1.17(k))	\$
		[]	For processing an application with a specification in a non-English language	
			all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached (\$130.00; 37 C.F.R. 1.47 and 1.17(i))	\$
		[]	ASSIGNMENT ACCOMPANYING NEW APPLICATION.") Petition fee for filing by other than	\$40.00
		[X]	Recording assignment (\$40.00; 37 C.F.R. 1.21(h)) (See attached "COVER SHEET FOR	
		[X]	Filing fee	\$770.00
	[X]	Encl	losed	. 1
		[]	No filing fee is to be paid at this time. (This and the surcharge required by 37 C.F.R. 1.	.16(e) can be paid subsequently

(Application Transmittal—page 8 of 11)

WARNING: Accurately count claims, especially multiple dependent claims, to avoid unexpected high charges, if extra claims, to avoid unexpected high charges, if extra claims are authorized. [X] The Commissioner is hereby authorized to charge the following additional fees by the paper and during the entire pendency of this application to Account No. 04-1105 [X] 37 C.F.R. 1.16(a), (f) or (g) (filing fees) [X] 37 C.F.R. 1.16(b), (c) and (d) (presentation of extra claims) NOTE: Because additional fees for excess or multiple dependent claims not paid on filing or on later presentation must only lead or these claims cancelled by amendment prior to the expiration of the time period set for response by the PTO in an notice of fee deficiency (37 CFR 1.16(d)), it might be best not to authorize the PTO to charge additional claim fees, exceptions of the proposal possibly when dealing with amendments after final action.	WAI	RNING:	If no fees are to be paid on filing, the following items should not be completed.			
[X] 37 C.F.R. 1.16(a), (f) or (g) (filing fees) [X] 37 C.F.R. 1.16(b), (c) and (d) (presentation of extra claims) NOTE: Because additional fees for excess or multiple dependent claims not paid on filing or on later presentation must only paid or these claims cancelled by amendment prior to the expiration of the time period set for response by the PTO in an notice of fee deficiency (37 CFR 1.16(d)), it might be best not to authorize the PTO to charge additional claim fees, except possibly when dealing with amendments after final action. [X] 37 C.F.R. 1.16(e) (surcharge for filing the basic filing fee and/or declaration on date later than the filing date of the application) [X] 37 C.F.R. 1.17(a)(1)-(5) (extension fees pursuant to § 1.136(a). [X] 37 C.F.R. 1.17 (application processing fees) NOTE: "A written request may be submitted in an application that is an authorization to treat any concurrent or future reply requiring a petition for an extension of time for the appropriate length of time. An authorization to charge all required fees, fees under § 1.17, or all reply requiring a petition for an extension of time for measurement of time in any concurrent or future reply requiring a petition for an extension of time for an extension of time in any concurrent or fire in any concurrent or future reply requiring a petition for an extension of time under this paragraph for its timely submission. Submission of the fee set forth in § 1.17(a) will also be treated as a constructive petition for an extension of time in any concurrent reply requiring a petition for an extension of time under this paragraph for its timely submission. "37 CFR 1.136(a)(3). [] 37 C.F.R. 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. 1.311(b)) NOTE: Where an authorization to charge the issue fee to a deposit account has been filed before the mailing of a Notice of Allowance, the issue fee will be automatically charged to the deposit account at the time of mailing the notice of allowance, the issue fee	WARNING:		Accurately count claims, especially multiple dependent claims, to avoid unexpected high charges, if extra claim charges are authorized.			
notice of jee deficiency (37 CFR 1.16(d)), it might be best not to authorize the PTO to charge additional claim fees, excepossibly when dealing with amendments after final action. [X] 37 C.F.R. 1.16(e) (surcharge for filing the basic filing fee and/or declaration on date later than the filing date of the application) [X] 37 C.F.R. 1.17(a)(1)-(5) (extension fees pursuant to § 1.136(a). [X] 37 C.F.R. 1.17 (application processing fees) NOTE: "A written request may be submitted in an application that is an authorization to treat any concurrent or future reply requiring a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for an extension of time length of time. An authorization to charge all required fees, fees under § 1.17, or all reply requiring a petition for an extension of time be treated as a constructive petition for an extension of time in any concurrent reply requiring a petition for an extension of time under this paragraph for its timely submission. Submission of the fee set potition for an extension of time under this paragraph for its timely submission. Submission of the fee set petition for an extension of time under this paragraph for its timely submission. "37 CFR 1.136(a)(3). [] 37 C.F.R. 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. 1.311(b)) NOTE: Where an authorization to charge the issue fee to a deposit account has been filed before the mailing of a Notice of Allowance, the issue fee will be automatically charged to the deposit account at the time of mailing the notice of allowance. In the application. Prior to paying, or at the time of paying. Since fee "From the wording of 37 CFR 1.28(b), (a) required if the change is to another small entity. 16. Instructions as to Overpayment NOTE: "Amounts of twenty-five dollars or less will not be returned unless specifically requested within a reasonable time, nor will the payer be notified of such amounts; amounts over twenty-five dollars may be retur	NOTA	E: Becc	paper and during the entire pendency of this application to Account No. 04-1105 [X] 37 C.F.R. 1.16(a), (f) or (g) (filing fees) [X] 37 C.F.R. 1.16(b), (c) and (d) (presentation of extra claims)			
[X] 37 CFR 1.17(a)(1)-(5) (extension fees pursuant to § 1.136(a). [X] 37 C.F.R. 1.17 (application processing fees) NOTE: "A written request may be submitted in an application that is an authorization to treat any concurrent or future reply requiring a petition for an extension of time ton dength of time. An authorization to charge all required sex fees under § 1.17, or all reply requiring a petition for an extension of time for the appropriate length of time. An authorization to charge all required sex fees under § 1.17, or all reply requiring a petition for an extension of time under this paragraph for its timely submission. Submission of the fee set forth in § 1.17(a) will also be treated as a constructive petition for an extension. Submission of the fee set petition for an extension of time under this paragraph for its timely submission. "37 CFR 1.136(a)(3). [] 37 C.F.R. 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. 1.311(b)) NOTE: Where an authorization to charge the issue fee to a deposit account has been filed before the mailing of a Notice of Allowance, the issue fee will be automatically charged to the deposit account at the time of mailing the notice of allowance. Allowance, the issue fee will be automatically charged to the deposit account at the time of mailing the notice of allowance. Pursuant to 37 C.F.R. 1.311(b). NOTE: 37 C.F.R. 1.26(b) requires "Notification of any change in status resulting in loss of entitlement to small entity status must be filed in the application prior to paying, or at the time of paying, issue fee. "From the wording of 37 C.F.R. 1.26(b), (a) required if the change is to another small entity. 16. Instructions as to Overpayment NOTE: " Amounts of twenty-five dollars or less will not be returned unless specifically requested within a reasonable time, nor will the payer be notified of such amounts; amounts over twenty-five dollars may be returned by check or, if requested, by credit to a deposit account." 37 C.F.R. 1.26(a).		nouc	e of fee deficiency (37 CFR 1 1661) is a set of the PTO in any			
NOTE: "A written request may be submitted in an application that is an authorization to treat any concurrent or future reply requiring a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for an extension of time for the appropriate length of time. An authorization to charge all required fees, fees under \$1.17,000 and reply requiring a petition for an extension of time fees will be treated as a constructive petition for an extension of time in any concurrent or future forth in \$1.17(a) will also be treated as a constructive petition for an extension of time in any concurrent or future forth in \$1.17(a) will also be treated as a constructive petition for an extension of time in any concurrent reply requiring a petition for an extension of time under this paragraph for its timely submission. "37 CFR 1.136(a)(3). [] 37 C.F.R. 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. 1.311(b)) NOTE: Where an authorization to charge the issue fee to a deposit account has been filed before the mailing of a Notice of Allowance, the issue fee will be automatically charged to the deposit account at the time of mailing the notice of allowance. Allowance, the issue fee will be automatically charged to the deposit account at the time of mailing the notice of allowance. Pursuant to 37 C.F.R. 1.311(b)). NOTE: 37 C.F.R. 1.28(b) requires "Notification of any change in status resulting in loss of entitlement to small entity status must be filed in the application prior to paying, or at the time of paying issue fee." From the wording of 37 C.F.R. 1.28(b), (a) notification of change of status must be made even if the fee is paid as "other than a small entity" and (b) no notification is required if the change is to another small entity. 16. Instructions as to Overpayment NOTE: " Amounts of twenty-five dollars or less will not be returned unless specifically requested within a reasonable time, nor will the payer be notified of such amo			date later than the filing date of the application. [X] 37 CFR 1.17(a)(1)-(5) (extension fees parameter)			
NOTE: "A written request may be submitted in an application that is an authorization to treat any concurrent or future reply requiring a petition for an extension of time to heapth of the length of time. An authorization to charge all required sex incorporating a petition for a certain of time for the appropriate length of time. An authorization to charge all required sex fees under § 1.17, or all reply requiring a petition for an extension of time time under this paragraph for its timely submission. Submission of the fee set petition for an extension of time under this paragraph for its timely submission. Submission of the fee set petition for an extension of time under this paragraph for its timely submission. The petition for an extension of time under this paragraph for its timely submission. "37 CFR 1.136(a)(3). [] 37 C.F.R. 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. 1.311(b)) NOTE: Where an authorization to charge the issue fee to a deposit account has been filed before the mailing of a Notice of Allowance, the issue fee will be automatically charged to the deposit account at the time of mailing the notice of allowance. 37 C.F.R. 1.311(b). NOTE: 37 C.F.R. 1.31(b). NOTE: 37 C.F.R. 1.36(b) requires "Notification of any change in status resulting in loss of entitlement to small entity status must be filed in the application prior to paying, or at the time of paying, issue fee. "From the wording of 37 C.F.R. 1.38(b), (a) required if the change is to another small entity. 16. Instructions as to Overpayment NOTE: " Amounts of twenty-five dollars or less will not be returned unless specifically requested within a reasonable time, nor will the payer be notified of such amounts; amounts over twenty-five dollars may be returned by check or, if requested, by credit to a deposit account." 37 C.F.R. 1.26(a).			[X] 37 C.F.R. 1.17 (application processing fees)			
NOTE: 37 CFR 1.28(b) requires "Notification of any change in status resulting in loss of entitlement to small entity status must be filed in the application prior to paying, or at the time of paying, structure from the wording of 37 CFR 1.28(b), (a) required if the change is to another small entity. 16. Instructions as to Overpayment NOTE: " Amounts of twenty-five dollars or less will not be returned unless specifically requested within a reasonable time, nor will the payer be notified of such amounts; amounts over twenty-five dollars may be returned by check or, if requested, by [X] Credit Account No. 04-1105			[] 37 C.F.R. 1.18 (issue fee at or before mailing a S.V. (1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.			
 NOTE: 37 CFR 1.28(b) requires "Notification of any change in status resulting in loss of entitlement to small entity status must be filed in the application prior to paying, or at the time of paying, issue fee." From the wording of 37 CFR 1.28(b), (a) required if the change of status must be made even if the fee is paid as "other than a small entity" and (b) no notification is required if the change is to another small entity. Instructions as to Overpayment NOTE: " Amounts of twenty-five dollars or less will not be returned unless specifically requested within a reasonable time, nor will the payer be notified of such amounts; amounts over twenty-five dollars may be returned by check or, if requested, by credit to a deposit account." 37 CFR 1.26(a). [X] Credit Account No04-1105	NOTE:	Where Allowar 37 CFR	an authorization to show at the control of the cont			
16. Instructions as to Overpayment NOTE: " Amounts of twenty-five dollars or less will not be returned unless specifically requested within a reasonable time, nor will the payer be notified of such amounts; amounts over twenty-five dollars may be returned by check or, if requested, by [X] Credit Account No. 04-1105		37 CFI	R 1.28(b) requires "Notification of any change in status resulting in loss of entitlement to small entity status must be			
[X] Credit Account No04-1105	16.	Instru	ections as to Overpayment			
		" An will the p credit to	nounts of twenty-five dollars or less will not be returned unless specifically requested within a reasonable time, nor ayer be notified of such amounts; amounts over twenty-five dollars may be returned by check or, if requested, by a deposit account." 37 CFR 1.26(a).			
[] Refund		[X]	Credit Account No. 04-1105			
		[]	Refund			

Chist Ch SIGNATURE OF PRACTITIONER Christine C. O'Day

			(type or print name of practitioner)
Tel.	No.: (6	517) 439-4444	EDWARDS & ANGELL, LLP P.O. Box 55874
			P.O. Address
Cust	omer No	p.: 21874	Boston, MA 02205
[X]	Inco	orporation by reference of added pages	
	divis	ional or C-I-P application) and assure	in this transmittal claims the benefit of prior U.S. plication entering the U.S. stage as a continuation, lete and attach the ADDED PAGES FOR NEW BENEFIT OF PRIOR U.S. APPLICATION(S)
	[X]	Plus Added Pages for New Applic Application(s) Claimed	cation Transmittal Where Benefit of Prior U.S.
			Number of pages added5
	[]	Plus Added Pages for Papers Referred t	
			Number of pages added
	[]	Plus added pages deleting names of inv longer inventor(s) of the subject matter	entor(s) named on prior application(s) who is/are no claimed in this application. Number of pages added
		71	
	[]	Plus "Assignment Cover Letter Accomp	panying New Application"
			Number of pages added
]	Stater	nent Where No Further Pages Added	
	(if no check	further pages form a part of this Transm the following item)	ittal, then end this Transmittal with this page and
	[]	This transmittal ends with this page.	

Reg. No. 38,256

[]

ADDED PAGES FOR APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED

NOTE: See 37 CFR 1.78.

17. Relate Back

WARNING: If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. 120, 121 or 355(c), 635 U.S.C. 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. 119, 365(a) or by an earlier expaplication, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed.

(complete the following, if applicable)

[X] Amend the specification by inserting, before the first line, the following sentence:

A. 35 U.S.C. 119(e)

NOTE:	"Any nonprovisional application claiming the benefit of one or more prior filed copending provisional applications must contain or be amended to contain in the first sentence of the specification following the title a reference to each such prior provisional application, identifying it as a provisional application, and including the provisional application number (consisting of series code and serial number)." 37 C.F.R. § 1.78(a)(4).
[]	"This application claims the benefit of U.S. Provisional Application(s) No(s).:
APPLI	CATION NO(S).: FILING DATE

B. 35 U.S.C. 120, 121 and 365(c)

NOTE: "Except for a continued prosecution application filed under § 1.53(d), any nonprovisional application claiming the benefit of one or more prior filed copending nonprovisional applications or international applications designating the United States of America must contain or be amended to contain in the first sentence of the specification following the title a reference to each such prior application, identifying it by application number (consisting of the series code and serial applications. Cross-references to other related applications may be made when appropriate." (See § 1.14(a)) 37

(Added Page for Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed-page 1 of 5)

	[X] "This application is a
	[] continuation
	[X] continuation-in-part
	[] divisional
c	of copending application(s)
	X] application number10/446,446, filed May 28, 2003
	International Application which designated the U.S, which is a continuation of filed on
NOTE:	The proper reference to a prior filed PCT application that entered the U.S. national phase is the U.S. serial number and the filing date of the PCT application that designated the U.S.
NOTE:	(1) Where the application being transmitted adds subject matter to the International Application, then the filing can be as a continuation-in-part or (2) if it is desired to do so for other reasons then the filing can be as a continuation.
NOTE:	The deadline for entering the national phase in the U.S. for an international application was clarified in the Notice of April 28, 1987 (1079 O.G. 32 to 46) as follows:
	"The Patent and Trademark Office considers the International application to be pending until the 22nd month from the priority date if the United States has been designated and no Demand for International Preliminary Examination has been fleed prior to the expiration of the 19th month from the priority date and until the 32nd month from the priority date if a expiration of the 19th month from the priority date, provided that a copy of the international application has been filed prior to the communicated to the Patent and Trademark Office within the 20 or 30 month period respectively. If a copy of the international application has not been communicated to the Patent and Trademark Office within the 20 or 30 month period respectively. The international application becomes abandoned as to the United States 20 or 30 month from the priority date respectively. These periods have been placed in the rules as paragraph (h) of § 1.494 and paragraph (i) of § 1.495. A continuing application under 35 U.S.C. 365(c) and 120 may be filed anytime during the pendency of the international application."
[]	"The nonprovisional application designated above, namely application, filed, claims the benefit of U.S. Provisional Application(s) No(s).
	CATION NO(S).: FILING DATE
	,
	"
[] V	Where more than one reference is made above please combine all references into one sentence.

18. Relate Back—35 U.S.C. 119 Priority Claim for Prior Application

The prior U.S. application(s), including any prior International Application designating the U.S., identified above in item 17B, in turn itself claim(s) foreign priority(ies) as follows:

Country	Appln. no.	Filed
Korea	2003-28669	May 6, 2003
[] The certified copy(ies) has (have)		
[] been filed in prior application	which was	filed on
[X] The certified copy(ies) will follow	<i>i</i>	
Bureau is placed in a folder and is folders are disposed of if the nationa needed later in the prosecution of a cadocuments from the folders and transfer, retrieve the folders, make sus such copies in the Continuents.	certified copy of the priori not assigned a U.S. serial al stage is not entered. There continuing application. An ali unsfer them to the continuin itable record notations, trans	een communicated to the PTO by the International do copy of the priority application in the continuing ity application communicated by the International number unless the national stage is entered. Such refore, such certified copies may not be available if thernative would be to physically remove the priority agaptication. The resources required to request feet the certified copies, enter and make a record of coordingly, the priority documents in folders of ge may not be relied on. Notice of April 28, 1987
19. Maintenance of Copendency of Prior		
NOTE: The PTO finds it useful if a copy of the peti the papers constituting the filing of the conti	ition filed in the prior applic inuation application. Notice o	cation extending the term for response is filed with of November 5, 1985 (1960 O.G. 22)
A. [] Extension of time in prior applic	cation	, (1000 0.0. 21).
[] A petition, fee and response exte	nds the term in the pend	ding prior application until
[] A copy of the petition filed in	n prior application is att	tached.
B. [] Conditional Petition for Extension	n of Time in Prior Appl	lication
complete this item, if previous item not applic	cable)	
[] A conditional petition for extension	on of time is being filed	In the pending prior application.
(Added Page for Application Tran	nsmittal Where Benefit of Pr	rior U.S. Application(s) Claimed-page 3 of 5)

[] A copy of the conditional petition filed in the prior application is attached.
20. Further Inventorship Statement Where Benefit of Prior Application(s) Claimed
(complete applicable item (a), (b) and/or (c) below)
(a) [] This application discloses and claims only subject matter disclosed in the prior application whose particulars are set out above and the inventor(s) in this application are
[] the same.
[] less than those named in the prior application. It is requested that the following inventor(s) identified for the prior application be deleted:
(type name(s) of inventor(s) to be deleted)
(b) [] This application discloses and claims additional disclosure by amendment and a new declaration or oath is being filed. With respect to the prior application, the inventor(s) in this application are
[] the same.
[] the following additional inventor(s) have been added:
(type name(s) of inventor(s) to be deleted)
(c) [] The inventorship for all the claims in this application are
[] the same.
[] not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made
[] is submitted.
[] will be submitted.
21. Abandonment of Prior Application (if applicable)
[] Please abandon the prior application at a time while the prior application is pending, or when the petition for extension of time or to revive in that application is granted, and when this application is granted a filing date, so as to make this application copending with said prior application.
NOTE: According to the Notice of May 13, 1983 (103, TMOG 6-7), the filing of a continuation or continuation-in-part application is a proper response with respect to a petition for extension of time or a petition to revive and should include
(Added Page for Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed-page 4 of 5)

the express abandonment of the prior application conditioned upon the granting of the petition and the granting of a filing date to the continuing application.

22. Petition for Suspension of Prosecution for the Time Necessary to File an Amendment

WARNING: "The claims of a new application may be finally rejected in the first Office action in those situations where (1) the new application is a continuing application of, or a substitute for, an earlier application, and (2) all the claims of the new application (a) are drawn to the same invention claimed in the earlier application, and (b) would have been properly finally rejected on the grounds of art of record in the next Office action if they had been entered in the earlier application." MPEP, § 706.07(b).

	eartier application." MPEP, § 706.07(b).
NOTE:	Where it is possible that the claims on file will give rise to a first action final for this continuation application and for some reason an amendment cannot be filed promptly (e.g., experimental data is being gathered) it may be desirable to file a petition for suspension of prosecution for the time necessary.
	(check the next item, if applicable)
[]	There is provided herewith a Petition To Suspend Prosecution for the Time Necessary to File An Amendment (New Application Filed Concurrently)
23. Sm	all Entity (37 CFR § 1.28(a))
[]	Applicant has established small entity status by the filing of a statement in parent application No.
	[] A copy of the statement previously filed is included.
WARNIN	IG: See 37 CFR § 1.28(a).
24. NO	TIFICATION IN PARENT APPLICATION OF THIS FILING
	A notification of the filing of this (check one of the following)
	[] continuation [] continuation-in-part [] divisional
is being	filed in the parent application, from which this application claims priority under 35 U.S.C. § 120.
#438378	